

X(4250) $^\pm$ $I(J^P) = ?(?)$

OMITTED FROM SUMMARY TABLE

Observed by MIZUK 08 in the $\pi^+ \chi_{c1}(1P)$ invariant mass distribution in $\bar{B}^0 \rightarrow K^- \pi^+ \chi_{c1}(1P)$ decays. Not seen by LEES 12B in this same mode after accounting for $K\pi$ resonant mass and angular structure.

X(4250)$^\pm$ MASS				
VALUE (MeV)	DOCUMENT ID	TECN	COMMENT	
4248 $+44 +180$ $-29 -35$	¹ MIZUK	08	BELL	$\bar{B}^0 \rightarrow K^- \pi^+ \chi_{c1}(1P)$
1 From a Dalitz plot analysis with two Breit-Wigner amplitudes.				

X(4250)$^\pm$ WIDTH				
VALUE (MeV)	DOCUMENT ID	TECN	COMMENT	
177 $+54 +316$ $-39 -61$	² MIZUK	08	BELL	$\bar{B}^0 \rightarrow K^- \pi^+ \chi_{c1}(1P)$
2 From a Dalitz plot analysis with two Breit-Wigner amplitudes.				

X(4250)$^\pm$ DECAY MODES	
Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad \pi^+ \chi_{c1}(1P)$	seen

$\Gamma(\pi^+ \chi_{c1}(1P))/\Gamma_{\text{total}}$	Γ_1/Γ		
VALUE	DOCUMENT ID	TECN	COMMENT
seen	³ MIZUK	08	BELL $\bar{B}^0 \rightarrow K^- \pi^+ \chi_{c1}(1P)$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
not seen	⁴ LEES	12B BABR	$B \rightarrow K\pi \chi_{c1}(1P)$
³ With a product branching fraction measurement of $B(\bar{B}^0 \rightarrow K^- X(4250)^+) \times B(X(4250)^+ \rightarrow \pi^+ \chi_{c1}(1P)) = (4.0^{+2.3+19.7}_{-0.9-0.5}) \times 10^{-5}$.			
⁴ With a product branching fraction limit of $B(\bar{B}^0 \rightarrow X(4250)^+ K^-) \times B(X(4250)^+ \rightarrow \chi_{c1} \pi^+) < 4.0 \times 10^{-5}$ at 90% CL.			

X(4250)$^\pm$ REFERENCES				
LEES MIZUK	12B 08	PR D85 052003 PR D78 072004	J.P. Lees <i>et al.</i> R. Mizuk <i>et al.</i>	(BABAR Collab.) (BELLE Collab.)

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